


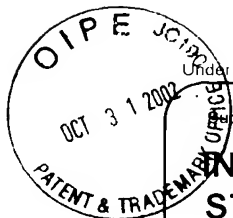
Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10 031,251
				Filing Date	October 23, 2001
				First Named Inventor	Matveev
				Art Unit	2818
				Examiner Name	
Sheet	1	of	4	Attorney Docket Number	602-1546

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
		US- 5,204,871		04-20-1993	Larkins	
		US- 5,055,894		10-08-1991	Chan	
		US- 5,543,353		08-06-1996	Suzuki	
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		US- 3,391,476		09-12-1972	Hayushi	
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Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind (if known)				
[Handwritten marks]		GB	1 376 910		12-11-1974	Hayashi		
		WO	93 09569	A1	05-13-1993	Alloven		
		WO	97 50133	A1	12-31-1997	De Poorter		
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		EP	0 540 799	A1	05-12-1993	Bona		
	EP	0 498 732	A2	08-12-1992	Shoji			

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		<b>Filing Date</b>	October 23, 2001
		<b>First Named Inventor</b>	Matveev
		<b>Group Art Unit</b>	2818
		<b>Examiner Name</b>	
<b>Sheet</b> 4 <b>of</b> 4	<b>Attorney Docket Number</b>	602-1546	

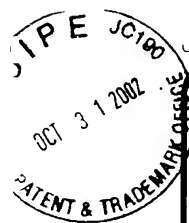
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published	T <sup>2</sup>
		MATVEEV, "InAs(Sb)(P) and InGaAs(Sb) LEDs as a light source for high temperature (t=80 - 180 C) optical sensing in the mid-IR (3 - 5 μm) spectral range", 5th European Conference, France, April 16 - 19 2000, pp 193 - 194	
		MATVEEV, "Room temperature InAs photodiode - InGaAs LED pairs for methane detection in the mid-IR", Sensors and Actuators B, vol 51, 1998, pp 233 - 237	
		ALFEROV, "Classical heterostructures paved the way", III - Vs Review, vol 1, no. 1, 1998, pp 26 - 31	
		ESINA, "Investigation of the optical properties of InAs 1-x-y Sb x Px solid solutions", Sov. Phys. Semicond., vol. 15, no. 12, 12/81, pp 1372-1373	
		MATVEEV, "InAsSbP/InAs LEDs for the 3.3-5 μm spectral range", IEEE proceedings online no 19982303, vol. 145, no 5, October 1998, pp 254-256	
		BERG, "Light Diodes", "Mir", Moscow 1979, p 478	

<b>Examiner Signature</b> 	<b>Date Considered</b> 8/03
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		Filing Date	October 23, 2001
		First Named Inventor	Matveev
		Art Unit	2818
		Examiner Name	
Sheet 3 of 4	Attorney Docket Number	602-1546	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
[Signature]		US- 4,190,813		02-26-1980	Logan	
		US- 4,374,390		02-15-1983	Lee	
		US- 5,812,578		09-22-1998	Schenmann	
		US- 5,821,690		10-13-1998	Martens	
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		Office³	Number⁴	Kind (if known)				

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† Applicant's unique citation designation number (optional) ‡ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901:04 § Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3) ¶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document § Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible ¶ Applicant is to place a check mark here if English language Translation is attached

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet	2	of	4
<b>Complete if Known</b>			
Application Number	10 031,251		
Filing Date	October 23, 2001		
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Attorney Docket Number	602-1546		

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		Number	Kind Code (if known)			
[Signature]		US- 5,272,106		12-21-1993	Hirtz	
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind (if known)				
3 1 4		EP	0 434 233	A1	06-26-1991	Fletcher		
		SI	1428141		09-09-1986	Karandashev		
		JP	03171791		07-25-1991	Fetsuo		
				</				

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